Approved For Release 2002/11/08: CIA-RDP75B00285R000400020037-6

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PROJECT STATUS REPORT

INSTRUCTIONS

Entries will be taken from codes listed on hormonecommunication page 3.

Enter concise project progress information sufficiently complete so that reference to other reports will not be necessary. Changes in program scheduling should be fully explained. If additional space is required, a separate 8 \times 10% sheet will be used. Identify particular report and mark proper security classifications.

1. PROGRAM STRUCTURE 2. PROJECT NR OR SYSTEM TEST OBJ NR 3. TASK, ESP OR TEST NUMBER

921A

62B01

4. AFFTC PROJECT DIRECTIVE NR 5. ARDC PRIORITY

5. REPORTING PERIOD

62-17

20F

February 1963

7. TITLE AND OBJECTIVE EXPERIMENTAL PERSONNEL PARACHUTE (MULTI-STAGE)

To determine the opening reliability of a multi-stage parachute assembly to be used by parachutist from high altitudes.

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LIC 9121 WSC 3

Tests completed:

Tests documented: 227

Aircraft hours flown to date:

Documented aircraft hours remaining:

Test C-130 - 54.1 B-66 - 32.0	Photo T=28 - 23.4 T-33 - 54.5 B-57 - 6.0 F-104 - 1.5 F-100 - 14.0 H-21 - 19.0	Test C-130 - 15.0 B-66 - 0	Photo T-33 - 0 F-100 - 0
•	T=38-4.0		

Four tests were made from the bomb bay of a B-66 aircraft to record riser force versus time data on a 78-inch D_{o} HF stabilization parachute and to determine the reliability of the multi-stage parachute assembly components. Test information follows:

22. OFFICE SYMBOL AND TELEPHONE EXT

28 February 1963

FTLGM/266

CWO Charles O. Laine

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Program Structure 921A, 100-FT. D RECOVERY CHUTE (Cont'd)

first stage reefing line was 18 feet long and the second stage reefing line was 28 feet long. The first stage reefing line was equipped with two 4-second timedelay reefing line cutters; the second stage reefing line was equipped with two 12-second time-delay reefing line cutters.

Test No. 0136 was conducted with a cluster of four 100-ft. Do CS SS recovery parachutes as the test items. A 21,200-lb. cylindrical vehicle was the suspended load. Each parachute was reefed with a 20-ft. reefing line equipped with two 10-second timedelay reefing line cutters. A 6-ft. D RGS pilot chute was stowed inside of each recovery parachute bag and permanently attached to the apex of the recovery parachute. A 15-ft. Do RS deployment parachute was attached to the recovery parachute bags by a 30-ft. bridle to each bag. The 21,200-lb. cylindrical vehicle was rigged to a platform to facilitate launching from the C-130 aircraft. The platform and the cylindrical vehicle were extracted from the aircraft by a 22-ft. Do RS extraction parachute. After the platform exited from the aircraft, two 35-ft. Do ES MC-1 chutes were deployed by static line and cut the binder straps which held the test vehicle to the platform and deployed a 100-ft. Do FC platform recovery parachute. After the vehicle separated from the platform a static line attached to the platform was to deploy the deployment parachute which in turn was to deploy the cluster parachutes. However, the handle tore away from the deployment bag and the parachute did not deploy. Consequently, the cluster of recovery parachutes did not deploy. The vehicle was heavily damaged at impact.

Test information follows:

Drop	Launch IAS (kt)	Launch altitude (ft)	lst stage reefed open force (lb)	2d stage reefed open force (1b)	Full open force (1b)	Remarks		
155 181	200 200	3000 4000	14,500 12,000	9200	20,800 18,100	(1) (2)		
160	150	5000			en en en	w.a		

(1) Damage consisted of 7 broken vent lines, many strained seams and broken stitching.

(2) Damage consisted of many strained seams and broken stitching.

Approved For Release 2002/11/08: CIA-RDP75B00285R000400020037-6 Program Structure 921A, EXPERIMENTAL PERSONNEL PARACHUTE (MULTI-STAGE) (Cont'd)

Drop	Launch TAS (kt)	MSL altitude (ft)	Pack opening TAS (kt)	Gross weight (1b)		force right o)	Remarks
0151	520	21,250	330	319	-	3035	(1)(2)(3)(4)
0152	525	21,350	358	331	2860	2525	(5)
0187	-	₩ 10	ú	322	e a,		(6)(7)(8)
0188	487	20,750	435	322	2790	3145	(8)(9)

- (1) Both legs of the articulated dummy were broken off at the knees. Orange paint from the seat kit was imbedded in the coveralls in the knee area.
- (2) Both right and left reinforced, bottom footman loops were broken.
- (3) The automatic ripcord release used for main canopy deployment was distorted within the protector pan. The wooden support block on the seat survival kit was separated from the seat kit.
- (4) The telemetric package failed to transmit force data for the left side riser group at the peak force time increment.
- (5) The main canopy deployed prematurely just after full open of the stabilization parachute. The main canopy did not inflate because the left side Rocket Jet canopy release separated. The dummy free fell to impact and was destroyed.
- (6) Cinetheodolite data for this test had to be re-run through the AFFTC computer and were not available for this report.
- (7) Evaluation of the 16mm air-to-air and bomb bay-to-air motion picture coverage showed that both Rocket Jet canopy releases for main canopy retention to the parachute harness opened inadvertently during deployment of the stabilization parachute. The main canopy deployed on schedule, 39 seconds after launch, but with both canopy releases disconnected the dummy and main canopy separated and the dummy free fell to impact and was destroyed.
- (8) Two 18-inch pack retention straps were attached to both lower corners of the main parachute pack and secured at the center of the seat sling to retain the pack during airblast exposure.
- (9) The front leg supports of the seat survival kit were removed for this test.

Approved For Release 2002/11/0 IA-RDP75B00285R000400020037-6 PROJECT STATUS REPORT INSTRUCTIONS ITEM 8 Enter concise project progress information sufficiently complete so that reference to other reports will not be necessary. Changes in program scheduling should be fully explained. It additional space is required, a separate 8 x ITEM 20 101/2 sheet will be used. Identify particular report and mark proper security classifications. 3. TASK, ESP OR TEST NUMBER I. PROGRAM STRUCTURE 2. PROJECT NR OR SYSTEM TEST OBJ NR 62B04 921A 6. REPORTING PERIOD 4. AFFTC PROJECT DIRECTIVE NR S. AROC PRIORITY February 1963 62 - 3275A 7. TITLE AND OBJECTIVE HUMAN FREE-FALL TRAJECTORIES To determine trajectories for human bodies in controlled and uncontrolled positions. FY 65 OTRS FY 66 OTRS CURRENT FY SCHEDULE ONDJ FIMIA 24 3d 41hl st 2d 3d 41h N D F M CURRENT SCHEDULE D R R NEW SCHEDULE CHG CODE 9. FIRST FLIGHT/TEST 18. % REPORT COM-17. % OATA REDUCTION 19. % TOTAL COM-PLETEO 14. % PLANNING % INSTRUMENTA- | 18. % TESTING TION COMPLETED COMPLETED 20/80 10/0 100/83 10/90 10/80 50/100 20. REMARKS LIC 9126 WSC 3 Tests documented: 96 Tests completed: 77 Documented aircraft hours remaining: Aircraft hours flown to date: Test Photo Test Photo C-130 - 25.7None G-130 - 22.3 None Testing has been terminated. The final report is being written. 21. DATE 22. OFFICE SYMBOL AND TELEPHONE EXT

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28 February 1963

AFFTC

FORM

APR 60